Specification sheet

ELECTRIC VEHICLE ENERGY MANAGEMENT SYSTEM

DCC-12

PAT. NO. 10.486.539

BREAKER	MAIN POWER SUPPLY							
EV charger ***	60A	70A	80A	90A	100A	125A	150A	200A
30A	✓	✓	✓	✓	✓	✓	✓	✓
40A	×	×	✓	✓	✓	✓	✓	✓
50A	×	×	×	×	✓	✓	✓	✓
60A	×	×	×	×	✓****	✓	✓	✓

Voltage and wiring	240/208V AC single phase: L1, L2, Neutral, Ground.
Frequency	50 à 60 Hz
Operation temperature	-22°F à 113°F (-30°C à 45°C)
Rated	NEMA 3R
Wire Gauge Size	up to 250 kcmil (MCM) **(CU/AL)****
Max torque	Relay terminals: 40 in-lbf
Dimensions* (H" x W" x D")	11" x 8" x 5"
Total weight*	8 lb (3,63 kg)

*Approximative and can change without notice.
** See Connecting aluminum conductors section in the installation manual V4

*** Not limited to compatibility with electric vehicle charging stations, this product can be installed with resistive loads of up to 60A and inductive loads of up to 40A

**** See dip switch programming step in manual for more details.

The DCC-12 is an Electric Vehicle Energy Management System (EVEMS) that allows a charger to be connected directly to an electrical panel which would otherwise not have sufficient capacity to allow the connection.

OPERATION

- Real-time reading of the total power consumption of the home's electrical panel;
- Detects when total power consumption exceeds 80% of main circuit breaker capacity and temporarily de-energizes the EV charger;
- Automatically re-energize the EV charger when the total power consumption of the electrical panel is less than 80% of its capacity for more than 15 minutes.
- Requires one double pole breaker slot available in a panel.

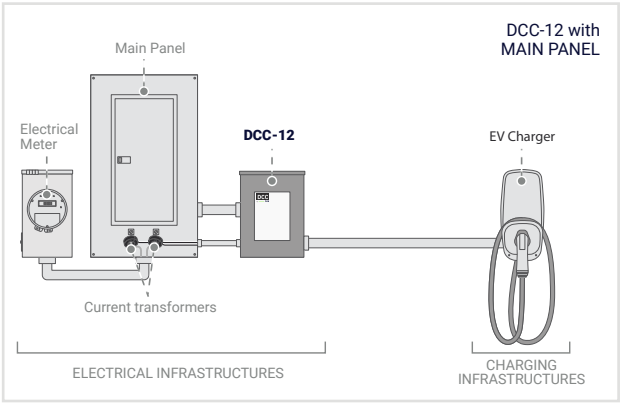
FEATURES

- Does not affect load calculation of a panel.
- Automatic billing of electricity by the utility.
- Can be wall or ceiling mounted.
- NEMA 3R enclosure for outdoor and indoor installation.

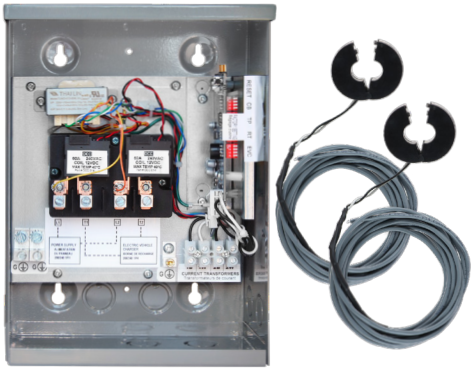
INCLUDED

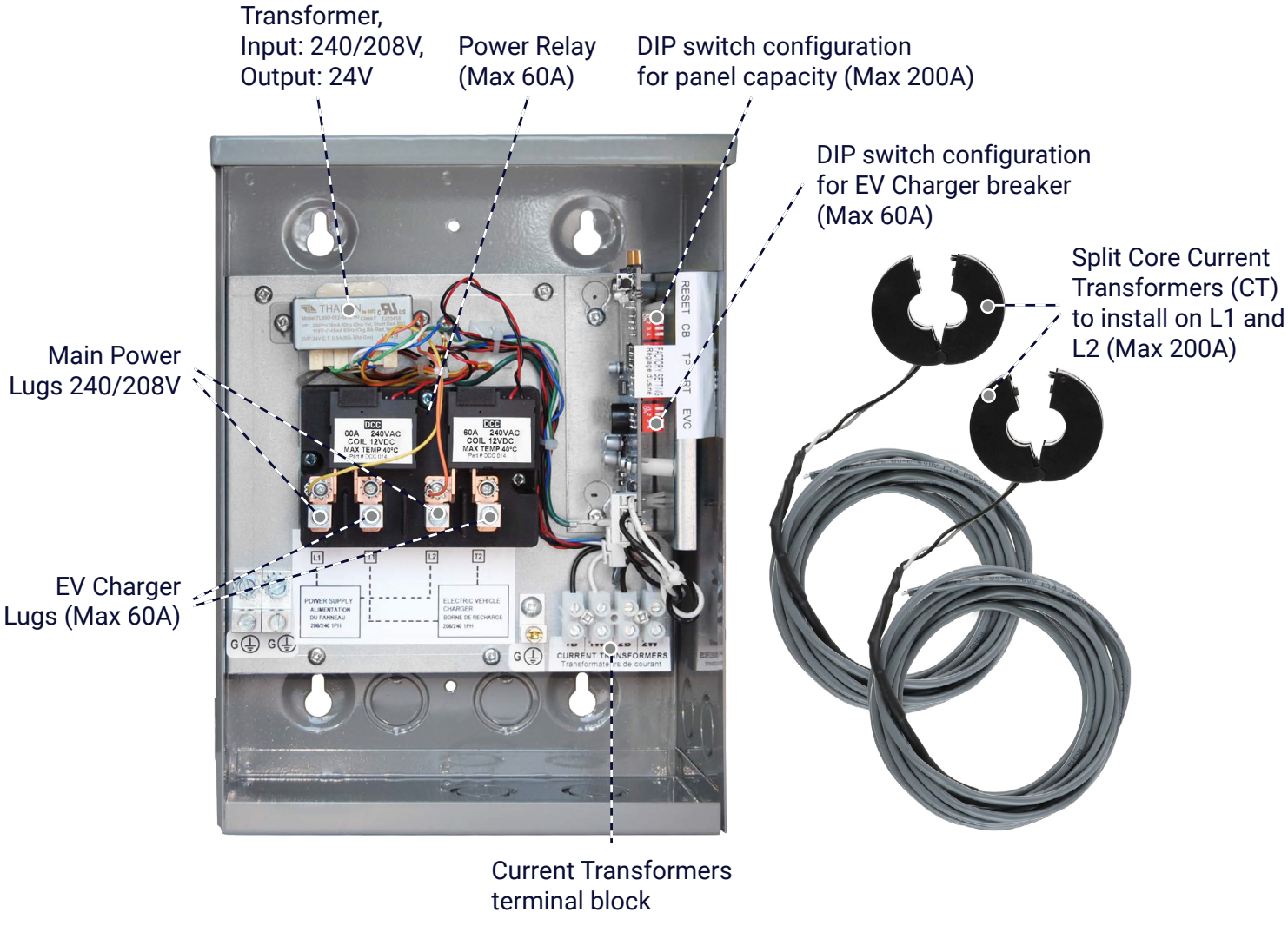
- Electric Vehicle Energy Management System
- Power Relay (Max 60A)
- 2 Split Core Current Transformers (CT)

INSTALLATION EXAMPLES

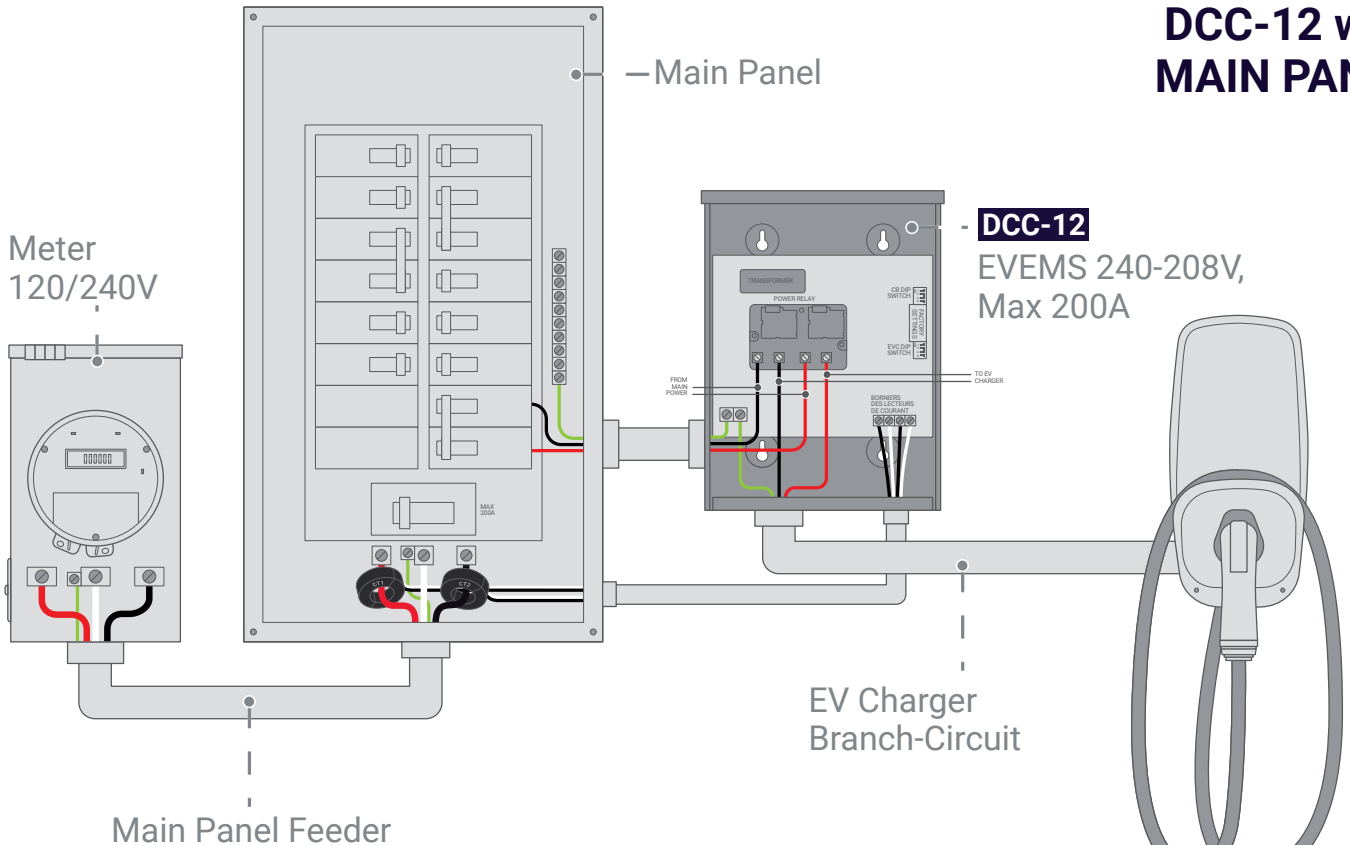


INTERNAL COMPONENTS

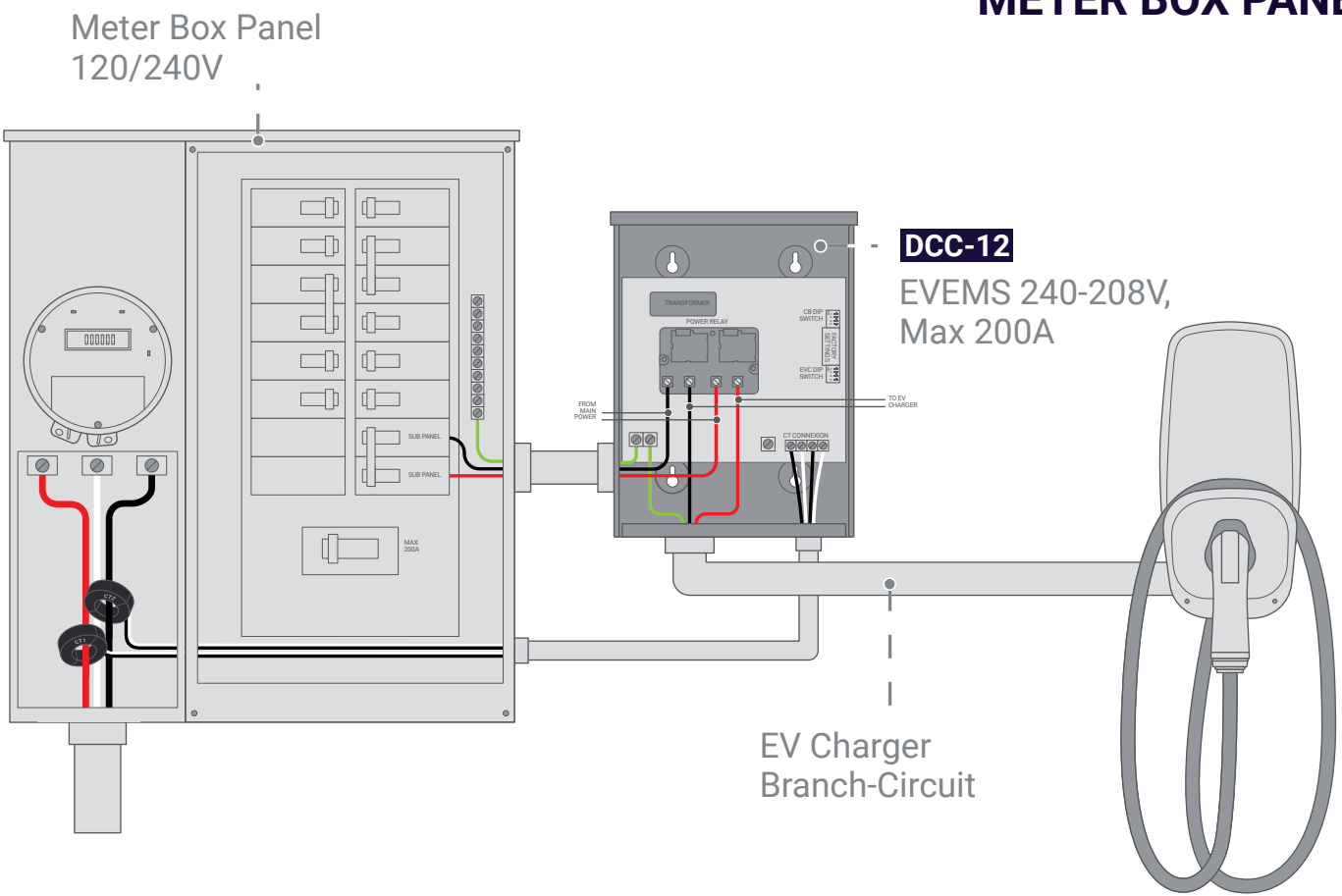
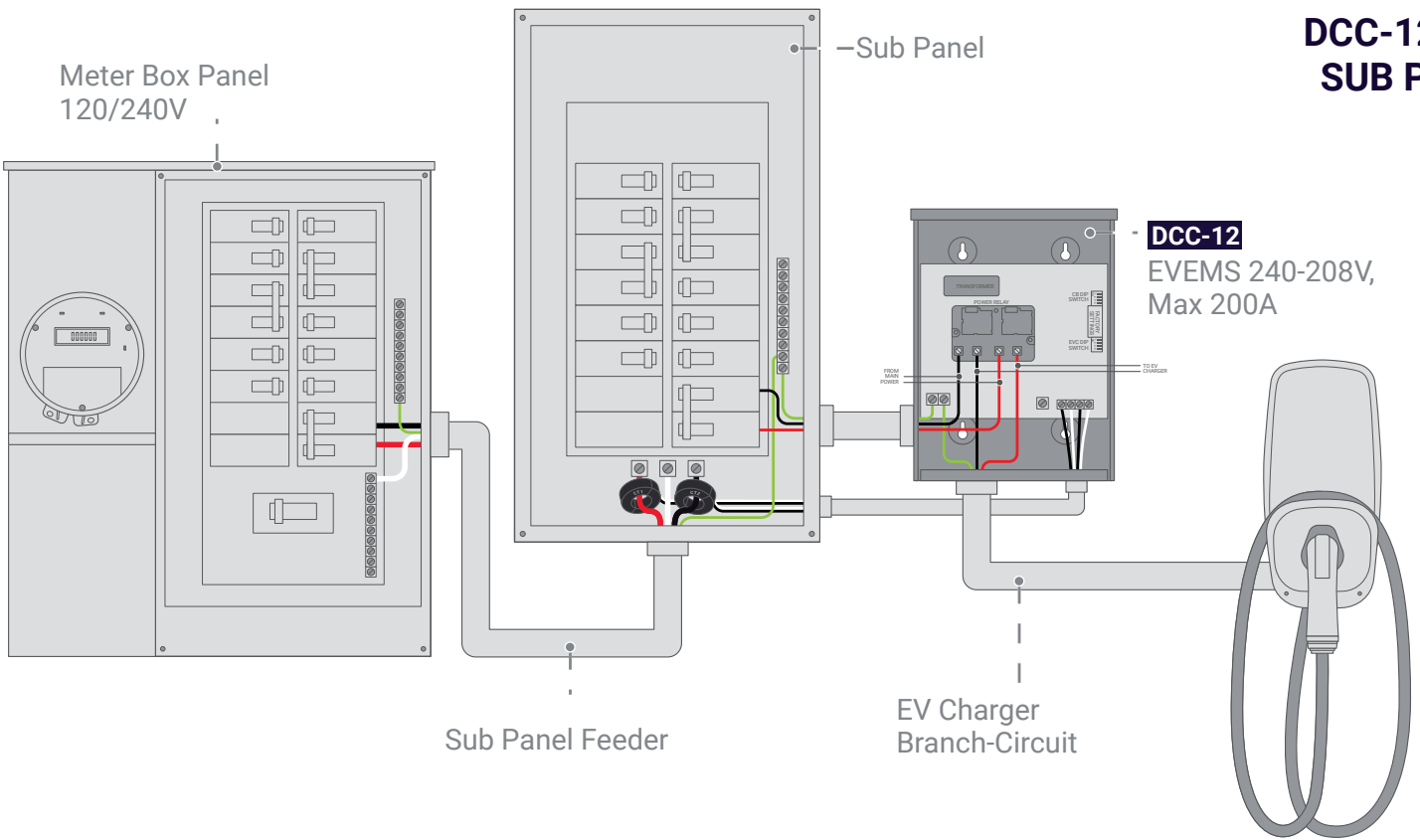



Transformer,
Input: 240/208V,
Output: 24V
Power Relay
(Max 60A)
DIP switch configuration
for panel capacity (Max 200A)
DIP switch configuration
for EV Charger breaker
(Max 60A)
Split Core Current
Transformers (CT)
to install on L1 and
L2 (Max 200A)
Main Power
Lugs 240/208V
EV Charger
Lugs (Max 60A)
Current Transformers
terminal block
RESET
CB
TP
BT
EVC
60A 240VAC
COIL 12VDC
MAX TEMP 40°C
POWER SUPPLY
ALIMENTATION
DU PANNEAU
ELECTRIC VEHICLE
CHARGER
BORNE DE RECHARGE
CURRENT TRANSFORMERS

DCC-12 with MAIN PANEL



DCC-12 with METER BOX PANEL



DCC-12 with SUB PANEL